

z/VM Systems Programming Workshop

Course Summary

Description

This course is designed to provide attendees with the skills needed to maintain, install, service and configure a z/VM system. This course is of particular interest to systems professionals with experience in Linux or z/OS with a need for skills acquisition in the z/VM platform. This workshop is designed to give you the background required to perform the commands and techniques through instructor examples and your own hands on exercises. Of course there are no shortcuts to becoming an experienced z/VM systems programmer, but we provide you with a framework of conceptual and practical understanding that will let you quickly excel and be productive in the z/VM arena.

Topics

- VM Overview
- CP and CMS Fundamentals
- XEDIT Fundamentals
- DIRMAINT
- zVM Installation and Service
- zVM Performance Overview

Duration

Five Days

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Course Outline

I. *VM Overview*

- A. zVM Concepts and Functions
- B. Virtual Machine Model
- C. Define Guest Operating Systems
- D. Review z/390 Architecture
- E. Control Program Description
- F. CP Console Function Commands

II. *CP and CMS Fundamentals*

- A. The basic functions of the Control Program
- B. Sample storage and disk layouts used by CP
- C. CP Directory entries
- D. CP Privilege Classes
- E. CP Console function commands
- F. CMS Virtual Machine characteristics
- G. CMS Commands
- H. CMS File System

III. *XEDIT Fundamentals*

- A. Layout of standard XEDIT window
- B. XEDIT Commands
- C. Xedit Prefix Commands
- D. Using XEDIT Effectively

IV. *DIRMAINT*

- A. The CP DIRECTORY
- B. Setting up and configuring a DIRMAINT server
- C. Setting up and configuring a DATAMOVE machine
- D. Issuing DIRMAINT commands for userid management
- E. Issuing DIRMAINT commands for storage management

V. *zVM Installation and Service*

- A. How zVM is installed
- B. How zVM is maintained
- C. Overview of zVM SES/E
- D. zVM SES/E commands and facilities
- E. Installing and Maintaining zVM base components
- F. Overview of Shared Segments
- G. Maintaining Shared Segments

VI. *zVM Performance Overview*

- A. An overview of zVM subsystems
- B. An overview of the zVM dispatcher
- C. An overview of the zVM scheduler
- D. Sources of performance data
- E. Viewing performance data with CP console function commands
- F. Using the IBM PERFKIT to analyze performance data